



Dengue Fever Frequently Asked Questions: MOSQUITOES

4 December 2015

Are all mosquitoes alike?

No. Mosquitoes have been around for millions of years. In that time, they've diversified into about 3,000 species worldwide. They have successfully adapted to climates from the arctic to the tropics. Some mosquitoes bite humans while others prefer other animals and some even just sip plant nectar; some transmit diseases, while others do not; some are active during the day, others at night; some prefer to breed in clean water, others in dirty ponds and swamps.

Do all mosquitoes bite?

No. Only the females bite. Female mosquitoes require the protein of a blood meal for development of their eggs – they do not feed on blood for their own nourishment. Since blood is only required to build eggs, the males do not take blood, but rather feed on plant nectar.

What are common mosquito breeding sites to watch for?

Heavy mosquito nuisance usually indicates a nearby breeding source. Make a systematic and thorough inspection around your home. Common breeding sites are in water found in old tires, clogged roof gutters, cans, bottles, unused swimming pools, unused fish ponds, pineapple lilies (bromeliads), hollow bamboo stumps, hollow tree stumps, uncapped hollow tile walls, uncapped fence pipes, and overflow trays under house plants.

What steps should be taken to reduce mosquito nuisance at home?

- Remove or empty anything that catches or holds standing water, such as old tires, flowerpots, toys, buckets, and plastic tarps on your premises.
- For plants that hold water, flush with a hose or spray with soapy water once a week.
- Use mosquito-eating fish, such as guppies, in unused swimming pools, constructed fish ponds with no outlet to the environment, or other large containers that cannot be removed or emptied of standing water. To protect Hawaii's rare native species

and aquatic habitats, do not release guppies or other alien species into the natural environment.

- Install or repair window screens and doors to keep out mosquitoes. Screens are your best protection against mosquito nuisance in your home.
- Clean your gutters. Remove leaves and debris so water will drain freely.

What steps can be taken for immediate temporary control?

- Eliminate adult mosquitoes with aerosol insecticide labeled for flying insects.
- Use insecticides specifically labeled for controlling mosquito larvae in breeding sites that cannot be emptied or removed. Consult a garden shop or a chemical company for available insecticides.
- Carefully follow the insecticide label's instructions for use

CAUTION: Certain pesticides and their solvents may cause respiratory irritation. Persons with respiratory diseases should consult their physicians before using any pesticide. It is a violation of federal law if pesticides are not applied exactly as the label directs. Insecticides can be harmful to people, pets, wildlife, and the environment when used improperly. For more information on proper pesticide use, go to <http://hdoa.hawaii.gov/pi/pest/faq-for-pesticides>.

How can I protect my children from mosquito bites?

Children (and adults) can wear clothing with long pants and long sleeves while outdoors. DEET or other repellents such as permethrin (not registered for use on skin) can also be applied to clothing, as mosquitoes may bite through thin fabric. Mosquito netting can be used over infant carriers. Also, try to reduce the number of mosquitoes in the area by getting rid of containers with standing water that provide breeding places for mosquitoes.

For more information and answers to Frequently Asked Questions (FAQs) about dengue fever, the Hawaii island outbreak, and using repellents safely, please see additional FAQs at <http://health.hawaii.gov/docd/dengue-outbreak-2015/>